

Matsuzaki

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[30] Foreign Application Priority Data

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[51] **Int. Cl.⁶** **H05K 7/02**; H01F 27/06;
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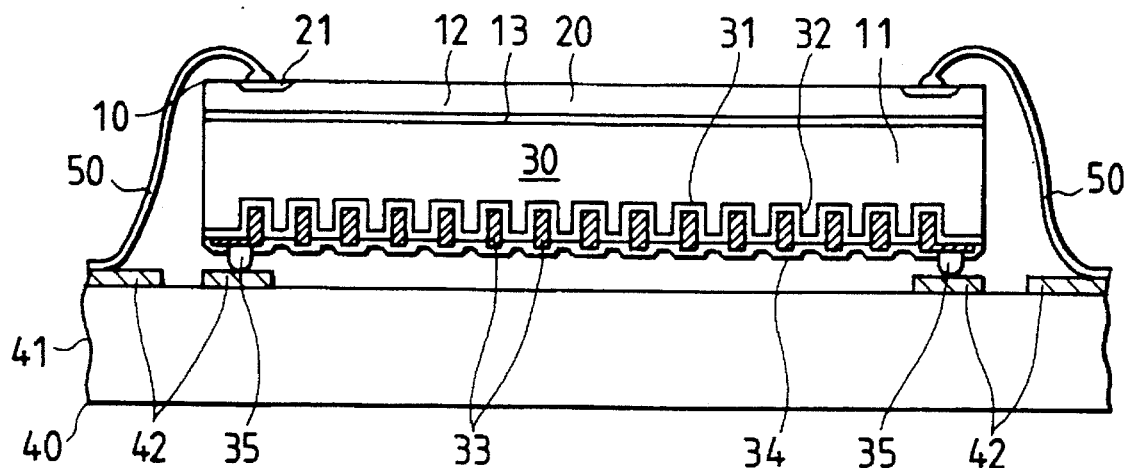
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[57] **ABSTRACT**

A magnetic induction coil is mounted directly on and integrated with a semiconductor wafer containing integrated circuitry for a stable power source. Grooves are etched in the reverse face of the wafer substrate, an insulating film is applied, and conducting material fills the grooves, forming the coil. The coil conductors are connected with wiring conductors from the opposite side through protruding electrodes.



8 Claims, 2 Drawing Sheets